



EM Modeling of Antennas and RF Components for Wireless Communication Systems (Signals and Communication Technology)

By Frank Gustrau, Dirk Manteuffel

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This book focuses on practical computational electrodynamics, guiding the reader step-by-step through the modeling process from the initial "what question must the model answer?", through the setting up of a computer model, to post processing, validation and optimization. The book offers a realistic view of the capabilities and limits of current 3-D field simulators and how to apply this knowledge efficiently to EM analysis and design of RF applications in modern communication systems.

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Editorial Review

Review

From the reviews:

"This book aims to fill the gap between pure academic research on the numerical methods of electromagnetic fields and tutorial information on how to use specific software tools. ... It is extremely valuable for engineers and graduates working on EM modeling." (Jizhong Chen, Optics and Photonics News, April, 2007)

From the Back Cover

The book focuses on the practical aspects of computational electrodynamics. A short review of electromagnetic field theory and an illustrative introduction to basic concepts of numerical methods provide the mathematical and physical background. The main part the book guides the reader step-by-step through the modelling process: from the initial "what question shall the model answer?", through the setting up of a computer model by creating geometry, boundary conditions, sources, ..., to post processing, validation, and optimization. A number of antenna and filter examples demonstrate the advantages and disadvantages of different numerical methods. So the book provides a realistic view on the capabilities and limits of state-of-the-art 3D-field simulators and on how to apply this knowledge efficiently to EM analysis and designing of RF applications in modern communication systems.

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Angela Jones:

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